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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/759,287	01/11/2001	Raul G. Barletta	801204-0011	9782
27910 STINSON MO	7590 06/27/2007 RRISON HECKER LLP	EXAMINER		
ATTN: PATENT GROUP 1201 WALNUT STREET, SUITE 2800			SWARTZ, RODNEY P	
	Y, MO 64106-2150		ART UNIT	PAPER NUMBER
			1645	
			MAIL DATE	DELIVERY MODE
			06/27/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		09/759,287	BARLETTA ET AL.				
		Examiner	Art Unit				
	•	Rodney P. Swartz, Ph.D.	1645				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
WHICI - Extens after S - If NO p - Failure Any re	PRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DASIONS of time may be available under the provisions of 37 CFR 1.13 MX (6) MONTHS from the mailing date of this communication. Deriod for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, ply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATE OF THIS COMMUNICATE OF THIS COMMUNICATE OF THE OF	ATION. bly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status		•					
1)⊠ I	Responsive to communication(s) filed on <u>6February2007</u> .						
<i>'</i> —	This action is FINAL . 2b)⊠ This action is non-final.						
•	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>15-42 and 54</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
• ——	5) Claim(s) is/are allowed.						
•	6)⊠ Claim(s) <u>15-42 and 54</u> is/are rejected.						
•	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application	on Papers						
9) The specification is objected to by the Examiner.							
•—	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
The bath of declaration is objected to by the Examiner. Note the attached Office Action of form F10-132.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
~ 36	ee the attached detailed Office action for a list of	or the certified copies flot re	:ceivea.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
3) Inform	of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date		/Mail Date ormal Patent Application -				

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DETAILED ACTION

- Pursuant to the Notice of Pre-Brief Appeal Conference Decision, the finality of the last
 Office Action is hereby vacated.
- 2. Applicants' Response to Office Action, received 7 November 2006, is acknowledged.
- 3. Claims 15-42 and 54 are pending and under consideration.

Rejections Maintained

4. The rejection of claims 15-42, and now newly added claim 54, under 35 U.S.C. 112, second paragraph, indefiniteness for differentiation of "growing" and "nongrowing", is withdrawn.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 15-17, 19, 20-27, 29-31, 33-41, and 54 are rejected under 35 U.S.C. 102(b) as being anticipated by Jacobs et al (U.S. Pat. No. 5,773,267).

The claims are drawn to a mutant mycobacterium. The recitation of the procedures for producing the mutant mycobacterium do not impart any patentably on the composition.

Therefore, any composition which fulfills the structural characteristics of the mutant mycobacterium reads on the claims. The claims are also drawn to compositions comprising at least one mycobacterium virulence determinant. Because of the open language of the claims, i.e., "comprising", the claims read on whole bacteria.

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Jacobs et al teach a mutant mycobacterium, BCG, a slow grower, nonvirulent, which has at least one mutation, ie., introduction of extraneous genetic material (Abstract; col. 6, line 23 to col. 8, line 9; claims 12-15).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 18, 28, 32, and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jacobs et al (U.S. Pat. No. 5,773,267).

The claims are drawn to a mutant *Mycobacterium paratuberculosis*. The recitation of the procedures for producing the mutant mycobacterium do not impart any patentably on the composition. Therefore, any composition which fulfills the structural characteristics of the mutant mycobacterium reads on the claims. The claims are also drawn to compositions comprising at least one *Mycobacterium paratuberculosis* virulence determinant. Because of the open language of the claims, i.e., "comprising", the claims read on whole bacteria.

Jacobs et al teach a mutant mycobacterium, BCG, a slow grower, nonvirulent, which has at least one mutation, ie., introduction of extraneous genetic material (Abstract; col. 6, line 23 to col. 8, line 9; claims 12-15). While Jacobs et al do not specifically teach mutant *Mycobacterium paratuberculosis*, they do teach that the methods for producing the mutant mycobacterium extend to other mycobacteria. Thus, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to make mutant *Mycobacterium paratuberculosis* for use a vaccine compositions.

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Conclusion

9. No claims are allowed.

10. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Rodney P. Swartz, Ph.D., Art Unit 1645, whose telephone number is (571) 272-0865. The examiner can normally be reached on Monday through Thursday from 9:00 AM to 7:30 PM EST.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Jeffrey Siew, can be reached on (571)272-0787.

The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RODNEY P SWARTZ, PH.D PRIMARY EXAMINER

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June 20, 2007